

Material: MSZ C 1

Standard Specification for Wheel Bodies for Rail Vehicles

Group: Ferrous Mild Steel Alloys

Sub Group: MSZ C 1 Wheel Bodies for Rail Vehicles

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|------------|---|--|
| Carbon | C % | 0.220 max. | Normalizing or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.500 max. | | |
| Manganese | Mn % | 1.200 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 0.300 max. | | |
| Nickel | Ni % | 0.300 max. | | |
| Molybdenum | Mo % | 0.500 max. | | |
| Vanadium | V % | 0.050 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 450 min. Yield Strength in Mpa 240 min. Elongation in % 22 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
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| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.8872 | DIN | Germany | Steel |
| 16 Mo 5 | STAS | Romania | Plate |
| 245 | BS | British | Casting |
| J12523 | UNS | USA | Casting |
| FS 12 MD 4 | AFNOR NF | France | Wire, Rod and Coil |
| G18Mo5 | UNI | Italy | Casting |
| A356 2 | ASTM | USA | Casting |

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